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<110> Chory, Joanne
      Jianming, Li
      Salk Institute for Biological Studies

<120> RECEPTOR KINASE, BIN 1

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ttc ttt ctc tct gta aca act ctc ttc ttc ttc tcc ttc ttt tct ctt   162
Phe Phe Leu Ser Val Thr Thr Leu Phe Phe Phe Ser Phe Phe Ser Leu
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tca ttt caa gct tca cca tct cag tct tta tac aga gaa atc cat cag   210
Ser Phe Gln Ala Ser Pro Ser Gln Ser Leu Tyr Arg Glu Ile His Gln
            25   30   35

ctt ata agc ttc aaa gac gtt ctt cct gac aag aat ctt ctc cca gac   258
Leu Ile Ser Phe Lys Asp Val Leu Pro Asp Lys Asn Leu Leu Pro Asp
        40   45   50

tgg tct tcc aac aaa aac ccg tgt act ttc gat ggc gtt act tgc aga   306
Trp Ser Ser Asn Lys Asn Pro Cys Thr Phe Asp Gly Val Thr Cys Arg
55   60   65   70

gac gac aaa gtt act tcg att gat ctc agc tcc aag cct ctc aac gtc   354
Asp Asp Lys Val Thr Ser Ile Asp Leu Ser Ser Lys Pro Leu Asn Val
                75   80   85

gga ttc agt gcc gtg tcc tcg tct ctc ctg tct ctc acc gga tta gag   402

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Gly Phe Ser Ala Val Ser Ser Ser Leu Leu Ser Leu Thr Gly Leu Glu
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Ser Leu Phe Leu Ser Asn Ser His Ile Asn Gly Ser Val Ser Gly Phe
             105                     110             115

aag tgc tct gct tct tta acc agc ttg gat cta tct aga aac tct ctt    498
Lys Cys Ser Ala Ser Leu Thr Ser Leu Asp Leu Ser Arg Asn Ser Leu
             120                     125             130

tcg ggt cct gta acg act cta aca agc ctt ggt tct tgc tcc ggt ctg    546
Ser Gly Pro Val Thr Thr Leu Thr Ser Leu Gly Ser Cys Ser Gly Leu
135                  140                 145                 150

aag ttt ctt aac gtc tct tcc aat aca ctt gat ttt ccc ggg aaa gtt    594
Lys Phe Leu Asn Val Ser Ser Asn Thr Leu Asp Phe Pro Gly Lys Val
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tca ggt ggg ttg aag cta aac agc ttg gaa gtt ctg gat ctt tct gcg    642
Ser Gly Gly Leu Lys Leu Asn Ser Leu Glu Val Leu Asp Leu Ser Ala
             170                     175             180

aat tca atc tcc ggt gct aac gtc gtt ggt tgg gtt ctc tcc gat ggg    690
Asn Ser Ile Ser Gly Ala Asn Val Val Gly Trp Val Leu Ser Asp Gly
             185                     190             195

tgt gga gag ttg aaa cat tta gcg att agc gga aac aaa atc agt gga    738
Cys Gly Glu Leu Lys His Leu Ala Ile Ser Gly Asn Lys Ile Ser Gly
             200                     205             210

gac gtc gat gtt tct cgc tgc gtg aat ctc gag ttt ctc gat gtt tcc    786
Asp Val Asp Val Ser Arg Cys Val Asn Leu Glu Phe Leu Asp Val Ser
215                  220                 225                 230

tcc aac aat ttc tcc act ggg att cct ttc ctc gga gat tgc tct gct    834
Ser Asn Asn Phe Ser Thr Gly Ile Pro Phe Leu Gly Asp Cys Ser Ala
                 235                 240                 245

ctg caa cat ctt gac atc tcc ggg aac aaa tta tcc ggc gat ttc tcc    882
Leu Gln His Leu Asp Ile Ser Gly Asn Lys Leu Ser Gly Asp Phe Ser
             250                     255             260

cgt gct atc tct act tgc aca gag ctc aag ttg ttg aac atc tct agt    930
Arg Ala Ile Ser Thr Cys Thr Glu Leu Lys Leu Leu Asn Ile Ser Ser
             265                     270             275

aac caa ttc gtc gga cca atc cct ccg cta ccg ctt aaa agt ctc caa    978
Asn Gln Phe Val Gly Pro Ile Pro Pro Leu Pro Leu Lys Ser Leu Gln
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tac ctc tct ctg gcc gag aac aaa ttc acc ggc gag atc cct gac ttt    1026
Tyr Leu Ser Leu Ala Glu Asn Lys Phe Thr Gly Glu Ile Pro Asp Phe
295                  300                 305                 310
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cat ttc tac ggt gcg gtt cct cca ttc ttc ggt tca tgt tct ctt ctc      1122
His Phe Tyr Gly Ala Val Pro Pro Phe Phe Gly Ser Cys Ser Leu Leu
            330                 335                 340

gaa tca ctc gcg ttg tcg agt aac aac ttc tct ggc gag tta ccg atg      1170
Glu Ser Leu Ala Leu Ser Ser Asn Asn Phe Ser Gly Glu Leu Pro Met
            345                 350                 355

gat acg ttg ttg aag atg aga gga ctc aaa gta ctt gat ctg tct ttc      1218
Asp Thr Leu Leu Lys Met Arg Gly Leu Lys Val Leu Asp Leu Ser Phe
            360                 365                 370

aac gag ttt tcc ggc gaa tta ccg gaa tct ctg acg aat cta tcc gct      1266
Asn Glu Phe Ser Gly Glu Leu Pro Glu Ser Leu Thr Asn Leu Ser Ala
375                 380                 385                 390

tcg ttg cta acg tta gat ctc agc tcc aac aat ttc tcc ggt ccg att      1314
Ser Leu Leu Thr Leu Asp Leu Ser Ser Asn Asn Phe Ser Gly Pro Ile
            395                 400                 405

ctc cca aat ctc tgc cag aac cct aaa aac act ctg cag gag ctt tac      1362
Leu Pro Asn Leu Cys Gln Asn Pro Lys Asn Thr Leu Gln Glu Leu Tyr
            410                 415                 420

ctt cag aac aat ggc ttc acc ggg aag att cca ccg act tta agc aac      1410
Leu Gln Asn Asn Gly Phe Thr Gly Lys Ile Pro Pro Thr Leu Ser Asn
            425                 430                 435

tgt tct gag ctg gtt tcg ctt cac ttg agc ttc aat tac ctc tcc ggg      1458
Cys Ser Glu Leu Val Ser Leu His Leu Ser Phe Asn Tyr Leu Ser Gly
    440                 445                 450

aca atc cct tcg agc tta ggc tct cta tcg aag ctt cga gat ctg aaa      1506
Thr Ile Pro Ser Ser Leu Gly Ser Leu Ser Lys Leu Arg Asp Leu Lys
455                 460                 465                 470

cta tgg ctg aat atg tta gaa gga gag atc cct cag gag ctc atg tat      1554
Leu Trp Leu Asn Met Leu Glu Gly Glu Ile Pro Gln Glu Leu Met Tyr
            475                 480                 485

gtc aag acc tta gag act ctg atc ctc gac ttc aac gat tta acc ggt      1602
Val Lys Thr Leu Glu Thr Leu Ile Leu Asp Phe Asn Asp Leu Thr Gly
            490                 495                 500

gaa atc cct tcc ggt tta agt aac tgt acc aat ctt aac tgg att tct      1650
Glu Ile Pro Ser Gly Leu Ser Asn Cys Thr Asn Leu Asn Trp Ile Ser
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ctg tcg aat aac cgg tta acc ggt gag att ccg aaa tgg att ggc cgg      1698
Leu Ser Asn Asn Arg Leu Thr Gly Glu Ile Pro Lys Trp Ile Gly Arg
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535                 540             545                 550

aac att ccg gat gag ctc ggc gac tgc aga agc tta atc tgg ctt gat     1794
Asn Ile Pro Asp Glu Leu Gly Asp Cys Arg Ser Leu Ile Trp Leu Asp
                    555             560                 565

ctc aac acc aat ctc ttc aat gga acg att ccg gcg gcg atg ttt aaa     1842
Leu Asn Thr Asn Leu Phe Asn Gly Thr Ile Pro Ala Ala Met Phe Lys
                570             575                 580

caa tcc ggg aaa atc gct gcc aat ttc atc gcc ggt aag agg tac gtt     1890
Gln Ser Gly Lys Ile Ala Ala Asn Phe Ile Ala Gly Lys Arg Tyr Val
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tat atc aaa aac gat ggg atg aag aaa gag tgt cat gga gct ggt aat     1938
Tyr Ile Lys Asn Asp Gly Met Lys Lys Glu Cys His Gly Ala Gly Asn
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tta ctt gag ttt caa gga atc aga tcc gaa caa tta aac cgg ctt tca     1986
Leu Leu Glu Phe Gln Gly Ile Arg Ser Glu Gln Leu Asn Arg Leu Ser
615                 620             625                 630

acg agg aac cct tgt aat atc act agc aga gtc tat gga ggt cac act     2034
Thr Arg Asn Pro Cys Asn Ile Thr Ser Arg Val Tyr Gly Gly His Thr
                635             640                 645

tcg ccg acg ttt gat aac aat ggt tcg atg atg ttt ctg gac atg tct     2082
Ser Pro Thr Phe Asp Asn Asn Gly Ser Met Met Phe Leu Asp Met Ser
                650             655                 660

tac aac atg ttg tct gga tac ata ccg aag gag att ggt tcg atg cct     2130
Tyr Asn Met Leu Ser Gly Tyr Ile Pro Lys Glu Ile Gly Ser Met Pro
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tat ctg ttt att ctc aat ttg ggt cat aac gat atc tct ggt tcg att     2178
Tyr Leu Phe Ile Leu Asn Leu Gly His Asn Asp Ile Ser Gly Ser Ile
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cct gat gag gta ggt gat cta aga ggt tta aac att ctt gat ctt tca     2226
Pro Asp Glu Val Gly Asp Leu Arg Gly Leu Asn Ile Leu Asp Leu Ser
695                 700             705                 710

agc aat aag ctc gat ggg agg att cct cag gct atg tca gct ctt act     2274
Ser Asn Lys Leu Asp Gly Arg Ile Pro Gln Ala Met Ser Ala Leu Thr
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atg ctt acg gaa atc gat ttg tcg aat aat aat ttg tct ggt ccg att     2322
Met Leu Thr Glu Ile Asp Leu Ser Asn Asn Asn Leu Ser Gly Pro Ile
                730             735                 740

cct gag atg ggt cag ttt gag act ttt cca ccg gct aag ttc ttg aac     2370
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Asn Pro Gly Leu Cys Gly Tyr Pro Leu Pro Arg Cys Asp Pro Ser Asn
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gca gac ggt tat gct cat cat cag aga tct cat gga agg aga cca gcg    2466
Ala Asp Gly Tyr Ala His His Gln Arg Ser His Gly Arg Arg Pro Ala
775                 780                 785                 790

tcc ctt gct ggt agt gtg gcg atg gga ttg ttg ttc tct ttt gtg tgt    2514
Ser Leu Ala Gly Ser Val Ala Met Gly Leu Leu Phe Ser Phe Val Cys
                795                 800                 805

ata ttt ggg ctg atc ctt gtt ggt aga gag atg agg aag aga cgg aga    2562
Ile Phe Gly Leu Ile Leu Val Gly Arg Glu Met Arg Lys Arg Arg Arg
                810                 815                 820

aag aaa gag gcg gag ttg gag atg tat gcg gaa gga cat gga aac tct    2610
Lys Lys Glu Ala Glu Leu Glu Met Tyr Ala Glu Gly His Gly Asn Ser
            825                 830                 835

ggc gat aga act gct aac aac acc aat tgg aag ctg act ggt gtg aaa    2658
Gly Asp Arg Thr Ala Asn Asn Thr Asn Trp Lys Leu Thr Gly Val Lys
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gaa gcc ttg agt atc aat ctt gct gct ttc gag aag cca ttg cgg aag    2706
Glu Ala Leu Ser Ile Asn Leu Ala Ala Phe Glu Lys Pro Leu Arg Lys
855                 860                 865                 870

ctc acg ttt gcg gat ctt ctt cag gct acc aat ggt ttc cat aat gat    2754
Leu Thr Phe Ala Asp Leu Leu Gln Ala Thr Asn Gly Phe His Asn Asp
                875                 880                 885

agt ctg att ggt tct ggt ggg ttt gga gat gtt tac aaa gcg att ttg    2802
Ser Leu Ile Gly Ser Gly Gly Phe Gly Asp Val Tyr Lys Ala Ile Leu
                890                 895                 900

aaa gat gga agc gcg gtg gct atc aag aaa ctg att cat gtt agc ggt    2850
Lys Asp Gly Ser Ala Val Ala Ile Lys Lys Leu Ile His Val Ser Gly
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caa ggt gat aga gag ttc atg gcg gag atg gaa acc att ggg aag atc    2898
Gln Gly Asp Arg Glu Phe Met Ala Glu Met Glu Thr Ile Gly Lys Ile
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aaa cat cga aat ctt gtg cct ctt ctt ggt tat tgc aaa gtt gga gac    2946
Lys His Arg Asn Leu Val Pro Leu Leu Gly Tyr Cys Lys Val Gly Asp
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gag cgg ctt ctt gtt aat gag gtt atg aag tat gga agt tta gaa gat    2994
Glu Arg Leu Leu Val Asn Glu Val Met Lys Tyr Gly Ser Leu Glu Asp
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Arg Arg Lys Ile Ala Ile Gly Ser Ala Arg Gly Leu Ala Phe Leu His
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cac aac tgc agt ccg cat atc atc cac aga gac atg aaa tcc agt aat   3138
His Asn Cys Ser Pro His Ile Ile His Arg Asp Met Lys Ser Ser Asn
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gtg ttg ctt gat gag aat ttg gaa gct cgg gtt tca gat ttt ggc atg   3186
Val Leu Leu Asp Glu Asn Leu Glu Ala Arg Val Ser Asp Phe Gly Met
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gcg agg ctg atg agt gcg atg gat acg cat tta agc gtc agt aca tta   3234
Ala Arg Leu Met Ser Ala Met Asp Thr His Leu Ser Val Ser Thr Leu
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Ala Gly Thr Pro Gly Tyr Val Pro Pro Glu Tyr Tyr Gln Ser Phe Arg
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Cys Ser Thr Lys Gly Asp Val Tyr Ser Tyr Gly Val Val Leu Leu Glu
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cta ctc acg ggt aaa cgg cca acg gat tca ccg gat ttt gga gat aac   3378
Leu Leu Thr Gly Lys Arg Pro Thr Asp Ser Pro Asp Phe Gly Asp Asn
         1080            1085            1090

aac ctt gtt gga tgg gtg aaa cag cac gca aaa ctg cgg att agc gat   3426
Asn Leu Val Gly Trp Val Lys Gln His Ala Lys Leu Arg Ile Ser Asp
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gtg ttt gac ccg gag ctt atg aag gaa gat cca gca tta gag atc gaa   3474
Val Phe Asp Pro Glu Leu Met Lys Glu Asp Pro Ala Leu Glu Ile Glu
             1115            1120            1125

ctt tta caa cat tta aaa gtt gcg gtt gcg tgt ttg gat gat cgg gct   3522
Leu Leu Gln His Leu Lys Val Ala Val Ala Cys Leu Asp Asp Arg Ala
             1130            1135            1140

tgg aga cga ccg aca atg gta caa gtc atg gcc atg ttt aag gag ata   3570
Trp Arg Arg Pro Thr Met Val Gln Val Met Ala Met Phe Lys Glu Ile
             1145            1150            1155

caa gcc ggg tca ggg ata gat tca cag tca acg atc aga tca ata gag   3618
Gln Ala Gly Ser Gly Ile Asp Ser Gln Ser Thr Ile Arg Ser Ile Glu
         1160            1165            1170

gat gga ggg ttc agt aca ata gag atg gtt gat atg agt ata aaa gaa   3666
Asp Gly Gly Phe Ser Thr Ile Glu Met Val Asp Met Ser Ile Lys Glu
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Val Pro Glu Gly Lys Leu
                1195


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Tyr Arg Glu Ile His Gln Leu Ile Ser Phe Lys Asp Val Leu Pro Asp
        35                  40                  45
Lys Asn Leu Leu Pro Asp Trp Ser Ser Asn Lys Asn Pro Cys Thr Phe
    50                  55                  60
Asp Gly Val Thr Cys Arg Asp Asp Lys Val Thr Ser Ile Asp Leu Ser
65                  70                  75                  80
Ser Lys Pro Leu Asn Val Gly Phe Ser Ala Val Ser Ser Ser Leu Leu
                85                  90                  95
Ser Leu Thr Gly Leu Glu Ser Leu Phe Leu Ser Asn Ser His Ile Asn
            100                 105                 110
Gly Ser Val Ser Gly Phe Lys Cys Ser Ala Ser Leu Thr Ser Leu Asp
        115                 120                 125
Leu Ser Arg Asn Ser Leu Ser Gly Pro Val Thr Thr Leu Thr Ser Leu
    130                 135                 140
Gly Ser Cys Ser Gly Leu Lys Phe Leu Asn Val Ser Ser Asn Thr Leu
145                 150                 155                 160
Asp Phe Pro Gly Lys Val Ser Gly Gly Leu Lys Leu Asn Ser Leu Glu
                165                 170                 175
Val Leu Asp Leu Ser Ala Asn Ser Ile Ser Gly Ala Asn Val Val Gly
            180                 185                 190
Trp Val Leu Ser Asp Gly Cys Gly Glu Leu Lys His Leu Ala Ile Ser
            195                 200                 205
Gly Asn Lys Ile Ser Gly Asp Val Asp Val Ser Arg Cys Val Asn Leu
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Glu Phe Leu Asp Val Ser Ser Asn Asn Phe Ser Thr Gly Ile Pro Phe
225                 230                 235                 240
Leu Gly Asp Cys Ser Ala Leu Gln His Leu Asp Ile Ser Gly Asn Lys
                245                 250                 255
Leu Ser Gly Asp Phe Ser Arg Ala Ile Ser Thr Cys Thr Glu Leu Lys
            260                 265                 270
Leu Leu Asn Ile Ser Ser Asn Gln Phe Val Gly Pro Ile Pro Pro Leu
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Pro Leu Lys Ser Leu Gln Tyr Leu Ser Leu Ala Glu Asn Lys Phe Thr
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Gly Glu Ile Pro Asp Phe Leu Ser Gly Ala Cys Asp Thr Leu Thr Gly
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Leu Asp Leu Ser Gly Asn His Phe Tyr Gly Ala Val Pro Pro Phe Phe
                        325                     330                     335
Gly Ser Cys Ser Leu Leu Glu Ser Leu Ala Leu Ser Ser Asn Asn Phe
                340                     345                     350
Ser Gly Glu Leu Pro Met Asp Thr Leu Leu Lys Met Arg Gly Leu Lys
                355                     360                     365
Val Leu Asp Leu Ser Phe Asn Glu Phe Ser Gly Glu Leu Pro Glu Ser
                370                     375                     380
Leu Thr Asn Leu Ser Ala Ser Leu Leu Thr Leu Asp Leu Ser Ser Asn
385                     390                     395                     400
Asn Phe Ser Gly Pro Ile Leu Pro Asn Leu Cys Gln Asn Pro Lys Asn
                        405                     410                     415
Thr Leu Gln Glu Leu Tyr Leu Gln Asn Asn Gly Phe Thr Gly Lys Ile
                        420                     425                     430
Pro Pro Thr Leu Ser Asn Cys Ser Glu Leu Val Ser Leu His Leu Ser
                        435                     440                     445
Phe Asn Tyr Leu Ser Gly Thr Ile Pro Ser Ser Leu Gly Ser Leu Ser
                        450                     455                     460
Lys Leu Arg Asp Leu Lys Leu Trp Leu Asn Met Leu Glu Gly Glu Ile
465                     470                     475                     480
Pro Gln Glu Leu Met Tyr Val Lys Thr Leu Glu Thr Leu Ile Leu Asp
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Phe Asn Asp Leu Thr Gly Glu Ile Pro Ser Gly Leu Ser Asn Cys Thr
                        500                     505                     510
Asn Leu Asn Trp Ile Ser Leu Ser Asn Asn Arg Leu Thr Gly Glu Ile
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Pro Lys Trp Ile Gly Arg Leu Glu Asn Leu Ala Ile Leu Lys Leu Ser
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Asn Asn Ser Phe Ser Gly Asn Ile Pro Asp Glu Leu Gly Asp Cys Arg
545                     550                     555                     560
Ser Leu Ile Trp Leu Asp Leu Asn Thr Asn Leu Phe Asn Gly Thr Ile
                        565                     570                     575
Pro Ala Ala Met Phe Lys Gln Ser Gly Lys Ile Ala Ala Asn Phe Ile
                        580                     585                     590
Ala Gly Lys Arg Tyr Val Tyr Ile Lys Asn Asp Gly Met Lys Lys Glu
                        595                     600                     605
Cys His Gly Ala Gly Asn Leu Leu Glu Phe Gln Gly Ile Arg Ser Glu
                        610                     615                     620
Gln Leu Asn Arg Leu Ser Thr Arg Asn Pro Cys Asn Ile Thr Ser Arg
625                     630                     635                     640
Val Tyr Gly Gly His Thr Ser Pro Thr Phe Asp Asn Asn Gly Ser Met
                        645                     650                     655
Met Phe Leu Asp Met Ser Tyr Asn Met Leu Ser Gly Tyr Ile Pro Lys
                        660                     665                     670
Glu Ile Gly Ser Met Pro Tyr Leu Phe Ile Leu Asn Leu Gly His Asn
                        675                     680                     685
Asp Ile Ser Gly Ser Ile Pro Asp Glu Val Gly Asp Leu Arg Gly Leu
                        690                     695                     700
Asn Ile Leu Asp Leu Ser Ser Asn Lys Leu Asp Gly Arg Ile Pro Gln
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Ala Met Ser Ala Leu Thr Met Leu Thr Glu Ile Asp Leu Ser Asn Asn
                        725                     730                     735
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- 8 -

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Asn Leu Ser Gly Pro Ile Pro Glu Met Gly Gln Phe Glu Thr Phe Pro
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Pro Ala Lys Phe Leu Asn Asn Pro Gly Leu Cys Gly Tyr Pro Leu Pro
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Arg Cys Asp Pro Ser Asn Ala Asp Gly Tyr Ala His His Gln Arg Ser
    770                 775                 780
His Gly Arg Arg Pro Ala Ser Leu Ala Gly Ser Val Ala Met Gly Leu
785                 790                 795                 800
Leu Phe Ser Phe Val Cys Ile Phe Gly Leu Ile Leu Val Gly Arg Glu
            805                 810                 815
Met Arg Lys Arg Arg Arg Lys Lys Glu Ala Glu Leu Glu Met Tyr Ala
            820                 825                 830
Glu Gly His Gly Asn Ser Gly Asp Arg Thr Ala Asn Asn Thr Asn Trp
            835                 840                 845
Lys Leu Thr Gly Val Lys Glu Ala Leu Ser Ile Asn Leu Ala Ala Phe
    850                 855                 860
Glu Lys Pro Leu Arg Lys Leu Thr Phe Ala Asp Leu Leu Gln Ala Thr
865                 870                 875                 880
Asn Gly Phe His Asn Asp Ser Leu Ile Gly Ser Gly Gly Phe Gly Asp
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Val Tyr Lys Ala Ile Leu Lys Asp Gly Ser Ala Val Ala Ile Lys Lys
            900                 905                 910
Leu Ile His Val Ser Gly Gln Gly Asp Arg Glu Phe Met Ala Glu Met
            915                 920                 925
Glu Thr Ile Gly Lys Ile Lys His Arg Asn Leu Val Pro Leu Leu Gly
    930                 935                 940
Tyr Cys Lys Val Gly Asp Glu Arg Leu Leu Val Asn Glu Val Met Lys
945                 950                 955                 960
Tyr Gly Ser Leu Glu Asp Val Leu Gln Asp Pro Lys Lys Gly Gly Val
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Lys Leu Lys Leu Ser Thr Arg Arg Lys Ile Ala Ile Gly Ser Ala Arg
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Gly Leu Ala Phe Leu His His Asn Cys Ser Pro His Ile Ile His Arg
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Asp Met Lys Ser Ser Asn Val Leu Leu Asp Glu Asn Leu Glu Ala Arg
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Val Ser Asp Phe Gly Met Ala Arg Leu Met Ser Ala Met Asp Thr His
1025                1030                1035                1040
Leu Ser Val Ser Thr Leu Ala Gly Thr Pro Gly Tyr Val Pro Pro Glu
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Tyr Tyr Gln Ser Phe Arg Cys Ser Thr Lys Gly Asp Val Tyr Ser Tyr
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Gly Val Val Leu Leu Glu Leu Leu Thr Gly Lys Arg Pro Thr Asp Ser
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Pro Asp Phe Gly Asp Asn Asn Leu Val Gly Trp Val Lys Gln His Ala
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Lys Leu Arg Ile Ser Asp Val Phe Asp Pro Glu Leu Met Lys Glu Asp
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Pro Ala Leu Glu Ile Glu Leu Leu Gln His Leu Lys Val Ala Val Ala
            1125                1130                1135
Cys Leu Asp Asp Arg Ala Trp Arg Arg Pro Thr Met Val Gln Val Met
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Ala Met Phe Lys Glu Ile Gln Ala Gly Ser Gly Ile Asp Ser Gln Ser
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Thr Ile Arg Ser Ile Glu Asp Gly Gly Phe Ser Thr Ile Glu Met Val
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Asp Met Ser Ile Lys Glu Val Pro Glu Gly Lys Leu
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<110> Chory, Joanne
       Jianming, Li
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<120> RECEPTOR KINASE, BIN 1

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                                          Met Lys Thr Phe Ser Ser
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Phe Phe Leu Ser Val Thr Thr Leu Phe Phe Phe Ser Phe Phe Ser Leu
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Ser Phe Gln Ala Ser Pro Ser Gln Ser Leu Tyr Arg Glu Ile His Gln
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Leu Ile Ser Phe Lys Asp Val Leu Pro Asp Lys Asn Leu Leu Pro Asp
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  55   60   65   70

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Asp Asp Lys Val Thr Ser Ile Asp Leu Ser Ser Lys Pro Leu Asn Val
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Gly Phe Ser Ala Val Ser Ser Ser Leu Leu Ser Leu Thr Gly Leu Glu
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